THE SEPTEMBER MEETING OF THE SAN FRANCISCO SECTION.

THE eighteenth regular meeting of the San Francisco Section of the American Mathematical Society was held at the University of California on Saturday, September 24, 1910. The following members were present:

Professor R. E. Allardice, Mr. B. A. Bernstein, Professor H. F. Blichfeldt, Professor G. C. Edwards, Professor R. L. Green, Professor M. W. Haskell, Professor L. M. Hoskins, Professor D. N. Lehmer, Professor H. C. Moreno, Professor C. A. Noble, Professor T. M. Putnam.

Professor Blichfeldt occupied the chair. The following officers were elected for the ensuing year: Chairman, Professor Lehmer; Secretary, Professor Moreno; program committee, Professors Blichfeldt, Haskell, and Moreno.

The dates of the next two meetings were fixed as April 8, 1911, and October 28, 1911.

The following papers were read at this meeting:

(1) Professor H. F. BLICHFELDT: "On the order of linear homogeneous groups.   IV."

(2) Professor D. N. LEHMER: "On the study of the general cubic by means of three involutions of rays in the plane."

Abstracts of the papers are given below:

1. In the theorems by Professor Blichfeldt on groups of linear homogeneous substitutions of determinant unity, a group of special nature is of importance, called a "self-conjugate subgroup H." It is contained in a linear group G when certain conditions are fulfilled. The theorems referred to suffer a lack of completeness due to the fact that it has not been proved that H actually contains fewer substitutions than G. In the present paper this proof has been supplied under the condition that G be primitive; besides, it is found that the number of variables n is divisible by the prime p associated with H in the theorems. An immediate result is the lowering of the known superior limit to the order of G, particularly when n is a prime.